

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=7; day=29; hr=18; min=49; sec=35; ms=813; ]

=====

Application No: 10612783 Version No: 3.0

Input Set:

Output Set:

Started: 2008-07-25 21:57:25.384  
Finished: 2008-07-25 22:04:05.928  
Elapsed: 0 hr(s) 6 min(s) 40 sec(s) 544 ms  
Total Warnings: 4  
Total Errors: 0  
No. of SeqIDs Defined: 12046  
Actual SeqID Count: 12046

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (8951)
W 402	Undefined organism found in <213> in SEQ ID (8952)
W 402	Undefined organism found in <213> in SEQ ID (11090)
W 402	Undefined organism found in <213> in SEQ ID (11091)

<110> La Rosa, Thomas J.  
Kovalic, David K.  
Zhou, Yihua  
Cao, Yongwei  
Abad, Mark S.  
Andersen, Scott E.  
Buehler, Robert E.  
Byrum, Joseph R.  
Cheikh, Nordine  
Conner, Timothy W.  
Coombs, Brian E.  
Dotson, Stanton B.  
Dubois, Patrice  
Edgerton, Michael D  
Fisher, Dane K.  
Hardeman, Kristine J.  
Heck, Gregory R.  
Hinkle, Gregory J.  
Lalgudi, Raghunath V.  
Liu, Jingdong  
Lutfiyya, Linda L.  
Mahadeo, Debbie A.  
Masucci, James D.  
McIninch, James  
Miller, Philip W.  
Nelson, Donald E.  
Peng, Ming  
Ruff, Thomas G.  
Shukla, Hridayabhiranjan  
Stein, Joshua  
Thompson, Michael D.  
Wu, Kunsheng

<120> Nucleic Acid Molecules And Other Molecules Associated With  
Plants

<130> 38-21(53373)C

<140> 10612783

<141> 2003-07-02

<150> 09/304,517

<151> 1999-05-06

<150> 09/333,535

<151> 1999-06-14

<150> 09/371,146

<151> 1999-08-09

<150> 09/394,745

<151> 1999-09-15

<150> 09/440,687

<151> 1999-11-16

<150>	09/531,113
<151>	2000-03-22
<150>	09/552,086
<151>	2000-04-19
<150>	09/553,094
<151>	2000-04-18
<150>	09/565,240
<151>	2000-05-08
<150>	09/565,306
<151>	2000-05-04
<150>	09/615,606
<151>	2000-07-13
<150>	09/619,643
<151>	2000-07-19
<150>	09/654,617
<151>	2000-09-05
<150>	09/663,423
<151>	2000-09-15
<150>	09/669,817
<151>	2000-09-26
<150>	09/684,016
<151>	2000-10-10
<150>	09/692,257
<151>	2000-10-19
<150>	09/696,664
<151>	2000-10-25
<150>	09/733,089
<151>	2000-12-11
<150>	09/816,660
<151>	2001-03-26
<150>	09/837,604
<151>	2001-04-18
<150>	09/849,526
<151>	2001-05-07
<150>	09/865,419
<151>	2001-05-29
<150>	09/865,439
<151>	2001-05-29

<150>	09/873,402
<151>	2001-06-05
<150>	09/874,708
<151>	2001-06-05
<150>	09/938,294
<151>	2001-08-24
<150>	09/985,678
<151>	2001-11-05
<150>	10/155,881
<151>	2002-05-22
<150>	10/219,999
<151>	2002-08-15
<150>	60/089,524
<151>	1998-06-16
<150>	60/125,817
<151>	1999-03-23
<150>	60/125,818
<151>	1999-03-23
<150>	60/130,174
<151>	1999-04-20
<150>	60/130,464
<151>	1999-04-22
<150>	60/132,860
<151>	1999-05-07
<150>	60/141,132
<151>	1999-06-28
<150>	60/141,135
<151>	1999-06-28
<150>	60/141,139
<151>	1999-06-28
<150>	60/144,084
<151>	1999-07-16
<150>	60/154,375
<151>	1999-09-17
<150>	60/197,872
<151>	2000-04-19
<150>	60/202,214
<151>	2000-05-08

<150> 60/207,458

<151> 2000-05-30

<150> 60/208,063

<151> 2000-05-31

<150> 60/209,830

<151> 2000-06-06

<150> 60/211,750

<151> 2000-06-15

<150> 60/228,466

<151> 2000-08-29

<150> 60/312,544

<151> 2001-08-15

<150> 60/324,109

<151> 2001-09-21

<150> 10/612,783

<151> 2003-07-02

<160> 12046

<210> 1

<211> 442

<212> DNA

<213> Glycine max

<220>

<223> Clone ID: PAT\_MRT3847\_100307C.1

<400> 1

cttgatttcg tacttgacaa agtctgctgg aacaggcatt ggtattgagt ttcgagagtc 60

aggtttgaat attaatgcta aaaatgagca gctagtaaaa gaaggcatgg tctttaatgt 120

gtcccttggg tttcagaacg ttcaaagaga aagttccaag tctaagaaca agcacttctc 180

cttgttgctt gctgacacag ttatcataaa caaagataaa actgaagttg tgacctctat 240

gagctcaaag gctctaaaag atgttgcata ttctttcaat gaggatgagg aagaggaaaa 300

tcccagggt aaagctgaca ccaatgggtgc tgagcccttg atgtctaaga caactctaag 360

gtcagacaat catgagatgt caaaggagga acttcgaagg cagcaccagg ccgaacttgc 420

tcgtcagaaa aatgaagaaa ct 442

<210> 2

<211> 1620

<212> DNA

<213> Glycine max

<220>

<223> Clone ID: PAT\_MRT3847\_100511C.1

<400> 2

cccacgcgtc cgagcaaatt gggcgttctc atggctccac tgcttgctga gttgtgagta 60  
tttggccaca cggaagatc aggctttgct ttgctttgtg tgagatctga agaagagagg 120  
tatggcaaaa agggctcttct tgtacaagga tttggttcct tttggggcca tggtgaccat 180  
ggaatgcctc aacgtagcct tgaatactct gttcaaagca gctaccttga gagggatgag 240  
ttaccatgtc tttgttggtt atgcttatgc tgttgctgct attgttctca ttcttgacc 300  
ctttatctcc caaagggtgca gatcaagagt gcttcctcgc ctgagtttcc ccctactacg 360  
caaaattggt ctctcgggc taataggggtg tgcttctcag atcgtgggat acacaggcat 420  
cagtttcagt tccccactc tctcctcggc gataagcaac ttggtgcccg cttttacttt 480  
tttgcttgcc atcattttca ggatggaaaa ggtgattgta agaaatacaa cttgtcaagc 540  
caaggatttg ggtaccatag tatcaataac tggagcattc gtagtgacct tctacaaagg 600  
accaccaatc atcattgttc atacaccttc cttgtcactt catcaaccaa ttaacactct 660  
gaattcggtg gatcgaagtt gggcaattgg tggccttcta ctgacagcag agtatattct 720  
ggttccatta tgggtacattg tacagggtgca aatcatgaag gtgtaccca atgaactaac 780  
tgtgatcttc ttttacaatt tatgtgtaag catcatggct gcaattgtag ctatatttac 840  
agagacaaat gcaggagctt ggaaaatagg actagataga gcattggctt caatagtttg 900  
ctctggaatt tttggttcat ttgtgaacaa cgcagttcac acatgggtac tacgtataaa 960  
gggtcctgtc tatgtggcaa tgttcaagcc actctcaatt gccatagctg ttgccttggg 1020  
agtcatgttc ctgggtgata cactccacct tggaaagtcta gtgggagcca cagtaatatc 1080  
gatcggattt tatacagtaa tgtggggaaa agcaaccgaa gagaatgtgg acgaagatgt 1140  
ccctggccag caatcaccac caaccacaga gaatgttcct ctcttgcaa gctataaaac 1200  
tgatacagct gaaaagaaaa tgcattggaag tgtataaatg acaaacaaa ctgttgataa 1260  
atcttaacat tattgaaatt acacgaatag caaagcaaat acatggtttt gttttcgccc 1320  
aagctaaccc tgtaacgcca atagcaatta gcaaagtagg taccacgccc tttagagtgt 1380  
agaggacatc atatgtaaga aatagttcaa gggttcaact gatctccttt cgccaaggaa 1440  
cataaacgaa tctttatata aattagggag caacctatct acaagtttgt gtacgaacac 1500  
tcacagatga aaacggagca acttcgttat ctgtcttccc ttttcctgtc tcttgtaaca 1560

agtcacccat attatgattt atagaagctg cgtgattctt taacattaaa aatattatga 1620

<210> 3  
<211> 582  
<212> DNA  
<213> Glycine max

<220>  
<223> Clone ID: PAT\_MRT3847\_101219C.1

<400> 3

gagtgttttg ttaagagaga aaaaatgaag agtatggaaa atgatgacaa tgctgacctt 60  
aataatcaaa acaattgggtt gggttttctca ctctctcttc aaatgcataa tataggagtt 120  
tcttcacact cacaaccttc ctctgctgct gaagtgggttc ctacaagctt ttaccaccac 180  
actgctccac ttagtagcta tggtttctac tatggacttg aagctgaaaa tgttggtattg 240  
tattcagctt tgccaatcat gcccctcaaa tctgatggct ctctctatgg attggaaact 300  
ttaagcaggt cacaagcaca agcaatggct actacttcaa caccaaaact ggagaacttc 360  
ttaggtgggg aagccatggg gacccctcat cactacgaat gtagtgccac agaaacaatg 420  
cctctgagct tagacagtgt tttttacatc caaccctcac gccgtgaccc aaataataac 480  
caaacctacc aaaacctatg tcaacacatt agcaccaacc aacaacaaca acagcaagag 540  
cttcaagcat attactctac cttgagaaac catgatatga ta 582

<210> 4  
<211> 228  
<212> DNA  
<213> Glycine max

<220>  
<223> Clone ID: PAT\_MRT3847\_101254C.1

<400> 4

tccagatctt gcaaaaaaaaa aaaaaacaca atggcaggga gcgctccac tccacgcgaa 60  
gagttcgtgt acatggcgaa gctggcggag caggccgagc gctacgagga gatggtggag 120  
ttcatggaga aggactacgc ctacgcctag agctaggagc tgaccgtgga agagcgcac 180  
ctcctctgcg taaactactt gaacgccttc agggctcgta gcgccttc 228

<210> 5  
<211> 608  
<212> DNA



<213> Glycine max

<220>

<223> Clone ID: PAT\_MRT3847\_101657C.1

<400> 5

gatcacattt aaaatcaaaa caacaaattt tcagactcaa caagcttcga accaaatctt 60  
attgagaaaa tgtctggctg tggaaagggg ggaaaggggt tgggaaaggg aagtgccaaag 120  
aggcacagga aggttcttcg tgacaacatc cagggcatca cgaaacctgc gattcgtagg 180  
ttagcgagaa gaggtggcgt gaagagaacc agtggtttga tctacgagga aaccaaagga 240  
gttctgaaga tattcttgaa gaacgtgatt cccgatgctg tgacctacac tgagcacgct 300  
aggaggaaac ctgttactgc tatggatgct gtttatgctc ccaaaagaca gggaaggacc 360  
ctctatggct ttggaggcta aagaatagaa tctttagggt taatgactgt gttgcaggat 420  
aaaacattgg ttcttttgaa tttgcgtgaa gtttagttta ggttttgggt tgttctgtaa 480  
catacgaagc tatgtttgct cagaaaatgt aaaacttcaa ttgaacccta aatgaaggag 540  
tgttgttttc gtggccccaa aaaaaaaaaa aaaaaaaaaa aaaaaaagcg gccgctctag 600  
aggatcca 608

<210> 6

<211> 889

<212> DNA

<213> Glycine max

<220>

<223> Clone ID: PAT\_MRT3847\_101658C.1

<400> 6

cttcacgcgc cctgaggctg cgacagctac tgccaagggtg gacccggagg agcagcgcag 60  
gcgtgaatta ttgcgaccc agtacctgac cggcgctaga aaacggcgac gagagacagg 120  
atgtggaatt caaaccaaaa tcccaaattc tcaaattcga ttctgaccaa attttcttca 180  
caaatgtctt ggtcgtggaa aaggtggcaa gggtttggga aaggaggtg ccaagaggca 240  
cagaaagggt cttcgtgaca acattcaagg tatcacgaaa cctgcgattc gtaggttagc 300  
gagaagaggt ggcgtaaga ggatcagtgg tttgatctac gaggaaacca gaggagtctt 360  
gaagatattc ttggagaacg tgattcgcga tgctgtgacc tacaccgagc acgctaggag 420  
gaagacggtg actgccatgg atgtggttta tgctctcaag aggcagggaa ggaccctcta 480  
tggtttcgga ggctgaatgg attgattctt agtattatta aattatgttg caggatataa 540



<210> 8  
<211> 667  
<212> DNA  
<213> Glycine max

<220>  
<223> Clone ID: PAT\_MRT3847\_101660C.1

<400> 8

cggtcgcgag aagacgacag aaggggtacgg ctgcgagaag acgacagaag ggtacggctg 60  
cgagaagacg acagaagggg atccaaattc aagttcgcac caaatTTTcc tcccaaaatg 120  
tcaggccgtg gaaaaggtgg gaaggggttg ggaaagggag gagctaagag gcacagaaag 180  
gttcttcgtg acaacattca aggaatcacg aaacctgcga ttcgtaggtt agcgagaaga 240  
ggtggcgtga agaggatcag tggtttgatt tacgaggaaa ccagaggagt tctgaagata 300  
ttcttgagga acgtgattcg cgatgctgta acctacactg agcacgctag gaggaaaact 360  
gttactgcta tggatgtcgt ttatgctctc aagagacagg gaaggaccct ctatggcttt 420  
ggaggctaaa gaatagaatc tttaggttta atgactgtgt tgcaggataa aacattggtt 480  
cttttgaatt tgcgtgaagt ttagtttagg ttttggttg ttctgtaaca tacgaagcta 540  
tgtttgctca gaaaatgtaa aacttcaatt gaaatctaaa tgaaggagtg ttgttttcgt 600  
ggcgcataatt ttctcacgat gatttgttct attcattggt aatatgtcgt caaggTTTT 660  
gcatttg 667

<210> 9  
<211> 996  
<212> DNA  
<213> Glycine max

<220>  
<221> UNSURE  
<222> (1)..(996)  
<223> unsure at all n locations

<220>  
<223> Clone ID: PAT\_MRT3847\_101661C.1

<220>  
<221> unsure  
<222> (1)..(996)  
<223> unsure at all n locations

<400> 9

ccacgcgtcc gtacggctgc gagaagacga cagaagggga tcccatTTga aatcaaaatc 60

```

aaaaacacca aatcctctaa ttcaagtttg caccaagttt tcttgagaaa atgtctggtc 120
gtggaaagggt tggaaagggt ttgggaaagg gaggtgccaa gaggcacagg aaggttcttc 180
gcgacaacat tcagggcatt acgaaacctg cgattcgtag gttagcgaga agaggtggcg 240
tgaagaggat cagtggtttg atctacgagg aaaccagagg ggttctgaag atattcttgg 300
agaacgtgat tcgcgatgct gtgacttata ccgagcacgc taggaggaag acggttactg 360
ccatggatgt tgtttatgct ctcaagagac agggaaggac cctctatggc tttggaggct 420
aaagagttgt ttttcttggt gtcccatgtg ctcatcttct tggatgctga agatgtttag 480
gttcattttg taacatagga tgcttggtca gtttaatttt ggatgtaaaa tgttgaacta 540
tgattgaaat tatatggact aattttttgt tggtggaagt atagcttgga atggcctcac 600
attgtttggt tgatattagg aaaatatgtc agtgaattat gaaatgtttt gacatggaag 660
aaaaaaaaa aaaagggcggt ccgccgcga tctagtgaag ttaccagtta ctatactctc 720
tctttctgaa acaatttgcc caattgtttg agatgttcaa tatgagattt gtatctcaag 780
attgggtggt ttcattgtga ctaatacttc tgggtgcatg cacaacatac tcattcagctt 840
ctttggggaa acctgagaac aacatanaaa catctgtttt taaatcaccc aagattgagc 900
taggtccagg gttagtttca acaaatttta ttttgatggt gactttccaa gaggccatat 960
tgcactcaag agtttcaatg ctgaattggg tgatga 996

```

```

<210>      10
<211>      584
<212>      DNA
<213>      Glycine max

```

```

<220>
<223>      Clone ID: PAT_MRT3847_101662C.1

```

```

<400>      10

```

```

tcttttgcga gaagacgaca gaaggatacg gctgcgtgaa gacgcccacg cgtgcgcca 60
attcaaacag aaaacctaatt ttctcaaatt tgatttcgca ccaaattttc ctactaaaa 120
tgtctggtcg tggaaagggt ggcaagggtt tgggaaaggg aggtgccaaag aggcacagga 180
aggttctgcg cgataacatt caaggaatca cgaaacctgc gattcgtagg ttagcgagaa 240
gaggtggcgt gaaaaggatc agtggtttga tctacgagga aaccagagga gttctgaaga 300
tattcttggg gaacgtgatt cgtgatgctg tgacctacac tgagcacgct aggaggaaga 360
cagtgactgc tatggacgtg gtttatgctc ttaagaggca gggaaggacc ctctacggtt 420

```

ttggaggctg aacaattctt tttttggctg tgctcctatg tgcttgttct cttggatgct 480  
 ggtgatgttt aggttcatcc tgtaacatag gcttattcag ctctagatgt aaaacgttga 540  
 accgtaattg gaattatatg aattagtact tttttgttgg tggc 584

<210> 11  
 <211> 621  
 <212> DNA  
 <213> Glycine max

<220>  
 <223> Clone ID: PAT\_MRT3847\_101663C.1

<400> 11

ccgggaattc aaacaaaaat cccaaatcct caaattcgat ttgtaccaa ttttcttcac 60  
 aaaatgtctg gtcgtgggaa aggtggcaag ggtttgggaa agggaggtgc caagaggcac 120  
 agaaaagttc ttcgtgataa cattcaaggt atcacgaaac ctgcgattcg taggttagcg 180  
 agaagaggtg gcgtgaagag gatcagtggg ttgatctatg aggaaaccag aggagtctcg 240  
 aagatcttct tggagaacgt gattcgagat gctgtgacct aactgagca cgctaggagg 300  
 aagacggtga ctgccatgga tgtggtttat gcgctcaaga ggcagggaag gaccctctat 360  
 ggtttcggag gctgaatgat tgattcttag tattattaaa ttatgttgca ggatataata 420  
 ttatgcctgt tcttctgaaa ttcggtgtga tgtttagttt aaattcgttc tgtaacatat 480  
 gaatctttaa aggttctgtt cggacagaaa atgtactact ttaattgaaa ttaaaatgaa 540  
 ggagcagcgt tttcgtgggt cattttatag cttaagcttt ttttctctta tgaaattgaa 600  
 gctcctgttg actttttctt a 621

<210> 12  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<220>  
 <223> Clone ID: PAT\_MRT3847\_101916C.1

<400> 12

ccacagtcca ttgctgtggc tccctctagt actactacta ctactactaa ttatggctat 60  
 gaatatggtg gccatttgca agatcaagct tactacactc aacaacaaac cactaatgct 120  
 acattgcttc ctcagcacca atccatgacc ccagctgcag ctgctgcagc actatcagat 180  
 gctccaaaac agtatcctgc acacaacatt cagcagtc aaacacagc acaaccagta 240

<210> 13  
<211> 1158  
<212> DNA  
<213> Glycine max

<220>  
<221> UNSURE  
<222> (1)..(1158)  
<223> unsure at all n locations

<220>  
<223> Clone ID: PAT\_MRT3847\_102149C.1

<220>  
<221> unsure  
<222> (1)..(1158)  
<223> unsure at all n locations

<400> 13

cgtgctaggg aaaaaagcct tgactaatag tccataccat aattttcctc tttcctctgt 60  
gcctcgcttc ttcttgaatc catgcgcatg agtttgaaga attgtgtag cggtgaggtg 120  
agatatttca atatttgata attgatagta tatatatggg gaggggaaga gtggatttga 180  
agaggatcga gaacaagatc aataggcaag tgacgttctc aaagagaagg tctggtttgc 240  
tgaagaaagc gcgcgagatc tctgtgctgt gcgatgctga tgtggctctc atcgtcttct 300  
ccaccaaagg caagcttttg gactactcca accaaccctg tacggaaaga attcttgaac 360  
ggtatgagag gtattcgtat gcggagaggc aacttgttgg agatgatcaa ccaccaaagt 420  
aaaactgggt tatagaacat gaaaagctca aggctagggt ggaggtacta cagagaaatc 480  
aaaggaattt tatgggagaa gatctggaca gcttaaactt tagaggactt cagagtttgg 540  
agcaacaact tgattccgct ctcaaacaca ttagatcacg aaagaaccaa gccatgaatg 600  
aatctatttc tgagcttcag aaaaaggata ggtcactccg tgaacacaac aacttgctct 660  
ccaagaagat aaaggaaaaa gagaaggagc tgacccca caagcaagaa ggactgcaa 720  
ataacatgga tgtgacctct gtccttgtaa ctcaaccacc ggagtccttg acaattggag 780  
gcttcccaga agccaaatgt aatgaagaaa ctccaacctc atgtcgacct aaaaccattc 840  
ttcccccttg gatgcctctt cctacaaatg aatagaagcc tattcttggt aaatacgaat 900  
accacttgta caaaggctag ctatatacat catcaggggc atttgatggg gactatacca 960  
cctggattgt aatctctgtg tgacgtttct gactgcattt taatgcagct gcaaggtata 1020  
ttaaattgtac tacatataaa tataaatgat actgatataa aattgagttt gaaaaaagg 1080

tgaagttttg acttanaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140

aaaaaaaaaa aaaaaaaaaa 1158

<210> 14

<211> 1147

<212> DNA

<213> Glycine max

<220>

<223> Clone ID: PAT\_MRT3847\_102150C.1

<400> 14

cccacgcgtc cgatgtaata catgctaaaa aaagccttga cttcatagtc cttaccctaa 60

tattcctctt tcctcttctt cttcttcttt ctttcttccg ccactgccgc agagcgtaga 120

aggaaatcaa acagcagaga gagggtaaag catacgtggg ttaaatccat gcgcatgagt 180

cggaagaatt tgtgttagcg gtgaggagat atattgagaa ttaatatattg atagtgtata 240

tatggggagg ggaagagtgg agtttaaaag gatcgagaac aagatcaata ggcaagtgac 300

gttctcaaag agaaggtctg gtttgctgaa gaaagcgcgc gagatctctg tgctgtgcga 360

tgctgatgtg gcttttatcg cattctacac caaaggcaag cttttggact actccaacca 420

accttgttct gaaagaattc ttgaaccgtg tgagagggat tcctatgccg agagggaact 480

tgttgagat gatcaaccac caaatgaaaa ctgggttata gaacatgaaa agctcaggct 540

agggtgagg tactacagca gaaatcaaag gaatttgatg ggagaagatc tggacagatt 600

aaatcttaca ggacttcaga ggtgggagca ccaacttgat tccgctctca aacacattag 660

atcacgaaag aaccaagcca tgaatgaatc tatttctgag cttcagaaaa aggataggac 720

actccgtgaa cacaacagct tgctctccaa gaagataaag gaaaaagaga aggagctgac 780

cccacaagag caagaaggac tgcaaaataa catggatgtg agctctgtcc ttgtaactca 840

accactggag tccttgacta ttggaggctc ccagaagtc aaatctaata aagaaactcc 900

cccctcatgt cgacctaaaa ccattcttcc ccctttgatg cctcttccta caaatgaata 960

gaagcctatt cttgttaaata acgaataccc cttgcacaaa ggctagctat atacatcatc 1020

agaggcattt gccggtgact atcccacctg gattgtatatt aatgctgcta ggtatattaa 1080

atgatctaca tataaaatga tactgatata aaattgagtt tgaataaagg ttgaagtttt 1140

gacttaa 1147

<210> 15  
<211> 962  
<212> DNA  
<213> Glycine max

<220>  
<223> Clone ID: PAT\_MRT3847\_102634C.1

<400> 15

ccacgcgtcc gcagtcatca tcaccaaaga taagacagaa attgtgactg ctacgagctc 60  
aaaagctctg aaggatgtag catattcttt caatgaggat gaggaagagg aaaggccaag 120  
cacaaaacca gatgccaaga aagctgagcc ctttatgtct aagacaactc ttaggtcaga 180  
caatcatgaa gtttcaaagg aggagcttcg caggcagcat caggcagaac ttgctcgtca 240  
gaaaaatgaa gaaactgcga ggcgtcttgc tgggtggtgga agtgaaacag gagagtcccg 300  
ttcctctgcg aggacttcag cagaactcat ggcctacaag aacataaatg accttcccc 360  
tcccagagag atgatgattc agattgatca gaagaatgaa gcagttctct tgcctataaa 420  
tggaagcatg gtaccttttc atgtggcttt cattcgaact gtttccagcc agcaggacac 480  
caaccgcaat tgctatgtca gaattatfff taatgttctt gggactcctt tcagtcctca 540  
tgatgcaaac tcaatgaagt tccctggatc tatatatfff aaggaggcgt cattccgctc 600  
caaggattca aggcacataa gtgagggtgt gcagtcatt aaaacactca ggcgtcaagt 660  
tgtagcaagg gagtctgaga gagctgagag ggcaaccttg gttactcaag agaaactgca 720  
acttgctaataatagattta agccaatacg attgtccgac ctttggatcc gtctgcttt 780  
tgggtgggct ggaaggaaga tacctggtac acttgaggct catgtgaatg gatttcgtta 840  
ttctaccact aggcaagatg agcgtgtaga cataatgttt cccaacatta agcatgcatt 900  
tttccaaccc gctgagaatg aaatgatcac tctcctacac ttgcatctgg acaaccatat 960  
ta 962

<210>